

Amendments to the Specification

Please replace the paragraph beginning on page 8, line 9, with the following replacement paragraph:

The advantages and properties of the invention may be better understood by ~~be~~ reference to the following glossary of terms.

Please replace the paragraph beginning on page 16, line 19 with the following replacement paragraph:

The above mechanism assumes small inclusive cycles. To enhance the performance of the protocol for large inclusive cycles a heuristic approach is used, the approach is outlined below. If the source does not receive a response to a query, either a query response message or a query enhancement message, within a preset time-out referred to as the ENHANCEMENT_INTERVAL, the source issues a fresh query to enquire about nodes that know of partial paths to the destination. Thus the source learns of alternate destinations for which it can issue a fresh query. Since the bordercast nodes have already been queried, the heuristic uses an alternate enhancement tree to attempt to reach a different subset of border nodes. Furthermore, when the bordercast tree is empty such an alternate enhancement tree request will be transmitted. For this alternative enhancement, a two-way bordercast tree (to be described in a subsequent subsection) may be used. The two-way bordercast tree is utilized to initiate a modified bordercast. The two-way tree is a shortest path tree such that all nodes in the tree are two-way nodes. Two-way nodes are those nodes in a querying node's outbound tree that

can reach the querying node by using their own outbound trees. The advantage of using such a tree is that all nodes on this tree are known to have a reverse route to the current node, unlike the original bordercast tree, in which only the border nodes are required to be two-way nodes. This two-way feature is used when responding to a route query. It is to be noted that the leaves of the two-way tree may be different from the leaves of the bordercast tree described previously.